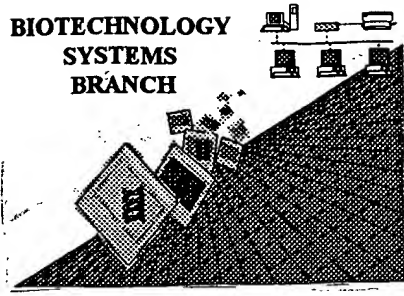


1632

#8/108
01/3/02



RAW SEQUENCE LISTING ERROR REPORT

RECEIVED
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TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/913,858
Source: O/P
Date Processed by STIC: 1/17/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebs/efs/downloads/documents.htm>), EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

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Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/913,858

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,858

DATE: 01/17/2002

TIME: 07:24:21

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

**Does Not Comply
Corrected Diskette Needed**

pg 3-5

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4 <110> APPLICANT: Altmann, Friedrich
6 <120> TITLE OF INVENTION: Fucosyl Transferase Gene
8 <130> FILE REFERENCE: 030560-057
10 <140> CURRENT APPLICATION NUMBER: US 09/913,858
11 <141> CURRENT FILING DATE: 2001-08-20
13 <150> PRIOR APPLICATION NUMBER: PCT/AT00/00040
14 <151> PRIOR FILING DATE: 2000-02-17
16 <150> PRIOR APPLICATION NUMBER: AT A 270/99
17 <151> PRIOR FILING DATE: 1999-02-18
19 <160> NUMBER OF SEQ ID NOS: 17
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
25 <211> LENGTH: 2198
26 <212> TYPE: DNA
27 <213> ORGANISM: Unknown Organism
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Unknown Organism:plant
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34 aaaaaaacac agcaagctgt gtttttttta tcttttaaca agcaccacca 120
35 tcatggaatc gtgctcataa cgccaaaatt ttccatttcc ctttgatttt tagtttattt 180
36 tgcggaattg gcagttgggg gcgcaattga atgatgggtc tgttgacgaa tcttcgagggc 240
37 tcgagaacag atggtgcccc acaagacagc ttaccggttt tggctccggg aggcaaccca 300
38 aagaggaaat ggagcaatct aatgcctctt gttgttgccc ttgtggtcat cgcggagatc 360
39 gcgtttctgg gtaggttgga tatggccaaa aacgcccga tggttgactc cctcgtgac 420
40 ttcttctacc gctctcgagc ggtcggtgaa ggtgacgatt tgggggtggg tttggtggct 480
41 tctgatcgga attctgaatc gtatagttgt gaggaaatgg tggagaggga ggatgctgtc 540
42 acgtattcga ggggcttttc caaagagcct atttttgttt ctggagctga tcaggagtgg 600
43 aagtcgtgtt cggttggtatg taaatttggt tttagtgggg atagaaagcc agatgccgca 660
44 tttgggttac ctcaaccaag tggaaacagc agcattctgc gatcaatgga atcagcagaa 720
45 tactatgctg agaacaatat tgccatggca agacggaggg gatataacat cgtaatgaca 780
46 accagtctat cttcggatgt tctgttgga ttttttcat gggctgagta tgatatgatg 840
47 gcaccagtgc agccgaaaac tgaagctgct cttgcagctg ctttcatttc caattgtggt 900
48 gctcgaaatt tccggttgca agctcttgag gcccttgaaa aatcaaacat caaaattgat 960
49 tcttatggtg gttgtcacag gaaccgtgat ggaagagtga acaaagtgga agccctgaag 1020
50 cactacaaat ttagcttagc gtttgaaaat tcgaatgagg aagattatgt aactgaaaaa 1080
51 ttcttccaat cccttggtgc tggaaactgtc cctgtggttg ttggtgctcc aaatattcag 1140
52 gactttgctc cttctcctgg ttcaatttta catattaaag agatagagga tgttgagtct 1200
53 gttgcaaaga ccatgagata tctagcagaa aatcccgaag catataatca atcattgagg 1260
54 tggaaagtat agggctccat tgactccttc aaggcccttg tggatatggc agctgtgcat 1320
55 tcatcgtgcc gtctttgcat tcacttgccc acagttagta gagagaagga agaaaataat 1380
56 ccaagcctta agagacgtcc ttgcaagtgc actagagggc cagaaaccgt atatcatatc 1440
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58 actctgaatg ctgtgaaggc tgctgttggt ttgaagttca catccctgaa tcttgtgect 1560
59 gtatggaaga ctgaaaggcc tgaagttata agagggggga gtgctttaaa actctacaaa 1620
60 atatacccaa ttggcttgac acagagacaa gctctttata ccttcagctt caaaggtgat 1680
61 gctgatttca ggagtcactt ggagaacaat ccttgtgcca agtttgaagt ctttttgtg 1740

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,858

DATE: 01/17/2002

TIME: 07:24:21

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

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63 gctagagttt taggaatgag tatggcagtg aatatggcat ggctttattt atgcctagtt 1860
64 tcttggccaa ctcatatgatg ttttgataaa gacatcacac ttttaatttta aacttgtttc 1920
65 tgtagaagtg caaatccata tttaatgott agtttttagtg ctcttatctg atcatctaga 1980
66 agtcacagtt cttgtatatt gtgagtga aa actgaaatct aatagaagga tcagatgttt 2040
67 cactcaagac acattattac ttcatgttgt tttgatgatc tcgagctttt ttagtgtctg 2100
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73 <212> TYPE: PRT
74 <213> ORGANISM: Unknown Organism
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Unknown Organism:plant
79 <400> SEQUENCE: 2
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81 1 5 10 15
83 Gln Gln Asp Ser Leu Pro Val Leu Ala Pro Gly Gly Asn Pro Lys Arg
84 20 25 30
86 Lys Trp Ser Asn Leu Met Pro Leu Val Val Ala Leu Val Val Ile Ala
87 35 40 45
89 Glu Ile Ala Phe Leu Gly Arg Leu Asp Met Ala Lys Asn Ala Ala Met
90 50 55 60
92 Val Asp Ser Leu Ala Asp Phe Phe Tyr Arg Ser Arg Ala Val Val Glu
93 65 70 75 80
95 Gly Asp Asp Leu Gly Leu Gly Leu Val Ala Ser Asp Arg Asn Ser Glu
96 85 90 95
98 Ser Tyr Ser Cys Glu Glu Trp Leu Glu Arg Glu Asp Ala Val Thr Tyr
99 100 105 110
101 Ser Arg Gly Phe Ser Lys Glu Pro Ile Phe Val Ser Gly Ala Asp Gln
102 115 120 125
104 Glu Trp Lys Ser Cys Ser Val Gly Cys Lys Phe Gly Phe Ser Gly Asp
105 130 135 140
107 Arg Lys Pro Asp Ala Ala Phe Gly Leu Pro Gln Pro Ser Gly Thr Ala
108 145 150 155 160
110 Ser Ile Leu Arg Ser Met Glu Ser Ala Glu Tyr Tyr Ala Glu Asn Asn
111 165 170 175
113 Ile Ala Met Ala Arg Arg Arg Gly Tyr Asn Ile Val Met Thr Thr Ser
114 180 185 190
116 Leu Ser Ser Asp Val Pro Val Gly Tyr Phe Ser Trp Ala Glu Tyr Asp
117 195 200 205
119 Met Met Ala Pro Val Gln Pro Lys Thr Glu Ala Ala Leu Ala Ala Ala
120 210 215 220
122 Phe Ile Ser Asn Cys Gly Ala Arg Asn Phe Arg Leu Gln Ala Leu Glu
123 225 230 235 240
125 Ala Leu Glu Lys Ser Asn Ile Lys Ile Asp Ser Tyr Gly Gly Cys His
126 245 250 255
128 Arg Asn Arg Asp Gly Arg Val Asn Lys Val Glu Ala Leu Lys His Tyr
129 260 265 270

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RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/09/913,858

TIME: 07:24:21

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

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131 Lys Phe Ser Leu Ala Phe Glu Asn Ser Asn Glu Glu Asp Tyr Val Thr
132      275      280      285
134 Glu Lys Phe Phe Gln Ser Leu Val Ala Gly Thr Val Pro Val Val Val
135      290      295      300
137 Gly Ala Pro Asn Ile Gln Asp Phe Ala Pro Ser Pro Gly Ser Ile Leu
138 305      310      315      320
140 His Ile Lys Glu Ile Glu Asp Val Glu Ser Val Ala Lys Thr Met Arg
141      325      330      335
143 Tyr Leu Ala Glu Asn Pro Glu Ala Tyr Asn Gln Ser Leu Arg Trp Lys
144      340      345      350
146 Tyr Glu Gly Pro Ser Asp Ser Phe Lys Ala Leu Val Asp Met Ala Ala
147      355      360      365
149 Val His Ser Ser Cys Arg Leu Cys Ile His Leu Ala Thr Val Ser Arg
150      370      375      380
152 Glu Lys Glu Glu Asn Asn Pro Ser Leu Lys Arg Arg Pro Cys Lys Cys
153 385      390      395      400
155 Thr Arg Gly Pro Glu Thr Val Tyr His Ile Tyr Val Arg Glu Arg Gly
156      405      410      415
158 Arg Phe Glu Met Glu Ser Ile Tyr Leu Arg Ser Ser Asn Leu Thr Leu
159      420      425      430
161 Asn Ala Val Lys Ala Ala Val Val Leu Lys Phe Thr Ser Leu Asn Leu
162      435      440      445
164 Val Pro Val Trp Lys Thr Glu Arg Pro Glu Val Ile Arg Gly Gly Ser
165      450      455      460
167 Ala Leu Lys Leu Tyr Lys Ile Tyr Pro Ile Gly Leu Thr Gln Arg Gln
168 465      470      475      480
170 Ala Leu Tyr Thr Phe Ser Phe Lys Gly Asp Ala Asp Phe Arg Ser His
171      485      490      495
173 Leu Glu Asn Asn Pro Cys Ala Lys Phe Glu Val Ile Phe Val
174      500      505      510
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179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence:cDNA
185 <400> SEQUENCE: 3
186 gaagccctga agcactacaa atttagctta gcgtttgaaa attcgaatga ggaagattat 60
187 gtaactgaaa aattcttcca atcccttggt gctggaactg tccct 105
189 <210> SEQ ID NO: 4
190 <211> LENGTH: 35
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195 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
197 <400> SEQUENCE: 4
198 Glu Ala Leu Lys His Tyr Lys Phe Ser Leu Ala Phe Glu Asn Ser Asn
199 1 5 10 15
201 Glu Glu Asp Tyr Val Thr Glu Lys Phe Phe Gln Ser Leu Val Ala Gly

```

insufficient explanation -
 give source
 of genetic
 material -
 see item 11
 on Ena
 summary sheet

DATE: 01/17/2002

TIME: 07:24:21

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

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202                20
204 Thr Val Pro
205                35
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216 <400> SEQUENCE: 5 see item 9 on Euro summary sheet
W--> 217 Lys Pro Asp Ala Xaa Phe Gly Leu Pro Gln Pro Ser Thr Ala Ser
218      1                    5                    10                    15
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222 <211> LENGTH: 10
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
229 <400> SEQUENCE: 6
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235 <211> LENGTH: 13
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
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252 <220> FEATURE:
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257      1                    5                    10
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260 <211> LENGTH: 29
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262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (3)..(15)
270 <223> OTHER INFORMATION: n = any nucleotide

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Explain
source of
genetic material

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,858

DATE: 01/17/2002

TIME: 07:24:22

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

272 <400> SEQUENCE: 9
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 276 <210> SEQ ID NO: 10
 277 <211> LENGTH: 22
 278 <212> TYPE: DNA
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 281 <220> FEATURE:
 282 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 284 <220> FEATURE:
 285 <221> NAME/KEY: misc_feature
 286 <222> LOCATION: (14)..(17)
 287 <223> OTHER INFORMATION: n = any nucleotide
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 W/L 290 crtadatrtg rtanacngty tc 22
 293 <210> SEQ ID NO: 11
 294 <211> LENGTH: 20
 295 <212> TYPE: DNA
 296 <213> ORGANISM: Artificial Sequence
 298 <220> FEATURE:
 299 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 301 <220> FEATURE:
 302 <221> NAME/KEY: misc_feature
 303 <222> LOCATION: (6)..(6)
 304 <223> OTHER INFORMATION: n = any nucleotide
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 W/L 307 tadatnswyt ccatytcraa 20
 310 <210> SEQ ID NO: 12
 311 <211> LENGTH: 20
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 315 <220> FEATURE:
 316 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 318 <400> SEQUENCE: 12
 319 ctggaactgt ccctgtggtt 20
 321 <210> SEQ ID NO: 13
 322 <211> LENGTH: 20
 323 <212> TYPE: DNA
 324 <213> ORGANISM: Artificial Sequence
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 334 <212> TYPE: DNA
 335 <213> ORGANISM: Artificial Sequence
 337 <220> FEATURE:
 338 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 340 <400> SEQUENCE: 14

Please correct
these errors
in subsequent
sequences

VERIFICATION SUMMARY

DATE: 01/17/2002

PATENT APPLICATION: US/09/913,858

TIME: 07:24:23

Input Set : A:\030560-057.ST25.txt

Output Set: N:\CRF3\01172002\I913858.raw

L:217 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:217 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
